

```
; FILING DATE: 07-May-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Anderson, Kathryn A.
; REGISTRATION NUMBER: 32,172
; REFERENCE/DOCKET NUMBER: 2801-B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 587-0430
; TELEFAX: (206) 233-0644
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 256 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-236-918A-6

Query Match      100.0%; Score 139; DB 1; Length 256;
Best Local Similarity 100.0%; Pred. No. 1.1e-13;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CRPWTNCSLDGRSVLKTGTTEKDVV 25
Db 133 CRPWTNCSLDGRSVLKTGTTEKDVV 157

RESULT 9
US-09-150-864A-6
; Sequence 6, Application US/09150864A
; Patent No. 6355779
; GENERAL INFORMATION:
; APPLICANT: Alderson, Mark R.
; APPLICANT: Goodwin, Raymond G.
; APPLICANT: Smith, Craig A.
; TITLE OF INVENTION: Cytokine Designated 4-1BB Ligand and Human Receptor
; TITLE OF INVENTION: That Binds Thereto
; FILE REFERENCE: 2801-B
; CURRENT APPLICATION NUMBER: US/09/150.864A
; CURRENT FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 08/060.843
; PRIOR FILING DATE: 1993-05-07
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Mus sp. (clone: mu4-1BB)
; US-09-150-864A-6

Query Match      100.0%; Score 139; DB 3; Length 256;
Best Local Similarity 100.0%; Pred. No. 1.1e-13;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CRPWTNCSLDGRSVLKTGTTEKDVV 25
Db 133 CRPWTNCSLDGRSVLKTGTTEKDVV 157

RESULT 10
US-08-012-269A-2
; Sequence 2, Application US/08012269A
; Patent No. 6362325
; GENERAL INFORMATION:
; APPLICANT: Kwon, Byoung S.
; TITLE OF INVENTION: MURINE 4-1BB GENE
; FILE REFERENCE: 740.009US1
; CURRENT APPLICATION NUMBER: US/08/012.269A
; CURRENT FILING DATE: 1993-02-01
; PRIOR APPLICATION NUMBER: US 07/922,996
; PRIOR FILING DATE: 1992-07-30
; PRIOR APPLICATION NUMBER: US 07/267,572
; PRIOR FILING DATE: 1988-11-07
; NUMBER OF SEQ ID NOS: 13
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; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Mus musculus
; US-08-012-269A-2

Query Match      100.0%; Score 139; DB 3; Length 256;
Best Local Similarity 100.0%; Pred. No. 1.1e-13;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CRPWTNCSLDGRSVLKTGTTEKDVV 25
Db 133 CRPWTNCSLDGRSVLKTGTTEKDVV 157

RESULT 11
US-09-623-545A-3
; Sequence 3, Application US/09623545A
; Patent No. 6627200
; GENERAL INFORMATION:
; APPLICANT: Merckle GmbH
; TITLE OF INVENTION: UTILIZATION OF CD137 IN ORDER TO PROMOTE THE
; TITLE OF INVENTION: PROLIFERATION OF PERIPHERAL MONOCYTES
; FILE REFERENCE: 30424.1USWO
; CURRENT APPLICATION NUMBER: US/09/623.545A
; CURRENT FILING DATE: 2000-09-05
; PRIOR APPLICATION NUMBER: EPO 98103859.9
; PRIOR FILING DATE: 1999-03-05
; PRIOR APPLICATION NUMBER: PCT/EP99/01440
; PRIOR FILING DATE: 1999-03-05
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Mus musculus
; US-09-623-545A-3

Query Match      100.0%; Score 139; DB 4; Length 256;
Best Local Similarity 100.0%; Pred. No. 1.1e-13;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CRPWTNCSLDGRSVLKTGTTEKDVV 25
Db 133 CRPWTNCSLDGRSVLKTGTTEKDVV 157

RESULT 12
PCT-US96-03965-2
; Sequence 2, Application PC/TUS9603965
; GENERAL INFORMATION:
; APPLICANT: Kwon, Byoung Se
; APPLICANT: Kang, Chang-yuil
; TITLE OF INVENTION: Monoclonal antibody against human
; TITLE OF INVENTION: receptor 4-1BB
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Barnard, Brown & Michaels
; STREET: 306 East State Street, Suite 220
; CITY: Ithaca
; STATE: NY
; COUNTRY: USA
; ZIP: 14850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/03965
; FILING DATE:
; CLASSIFICATION:
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QY 1 CRPWTNCSLDGRSVLKTGTTEKDVV 25
Db 133 CRPWTNCSLDGRSVLKTGTTEKDVV 157

RESULT 5

US-08-795-446B-52
; Sequence 52, Application US/08795446B
; Patent No. 6288032
; GENERAL INFORMATION:
; APPLICANT: Boyle, William J.
; APPLICANT: Lacey, David L.
; APPLICANT: Calzone, Frank J.
; APPLICANT: Chang, Ming-Shi
; TITLE OF INVENTION: OSTEOPROTEGERIN
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Amgen Inc.
; STREET: 1840 Dehavilland Drive
; CITY: Thousand Oaks
; STATE: California
; COUNTRY: USA
; ZIP: 91320-1789
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/795,446B
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/577,788
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Winter, Robert B.
; REFERENCE/DOCKET NUMBER: A-378
; INFORMATION FOR SEQ ID NO: 52:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-795-446B-52

Query Match 100.0%; Score 139; DB 3; Length 191;
Best Local Similarity 100.0%; Pred. No. 7.8e-14;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CRPWTNCSLDGRSVLKTGTTEKDVV 25
Db 133 CRPWTNCSLDGRSVLKTGTTEKDVV 157

RESULT 6

US-08-706-945D-139
; Sequence 139, Application US/08706945D
; Patent No. 6369027
; GENERAL INFORMATION:
; APPLICANT: Boyle, William
; APPLICANT: Lacey, David
; APPLICANT: Calzone, Frank
; APPLICANT: Chang, Ming-Shi
; TITLE OF INVENTION: Osteoprotegerin
; FILE REFERENCE: A-378CIP
; CURRENT APPLICATION NUMBER: US/08/706,945D
; CURRENT FILING DATE: 1996-09-03
; PRIOR APPLICATION NUMBER: 08/577,788
; PRIOR FILING DATE: 1995-12-22
; NUMBER OF SEQ ID NOS: 145
; SOFTWARE: Patent in version 3.1

; SEQ ID NO 139
; LENGTH: 191
; TYPE: PRT
; ORGANISM: Homo sapiens
US-08-706-945D-139

Query Match 100.0%; Score 139; DB 3; Length 191;
Best Local Similarity 100.0%; Pred. No. 7.8e-14;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CRPWTNCSLDGRSVLKTGTTEKDVV 25
Db 133 CRPWTNCSLDGRSVLKTGTTEKDVV 157

RESULT 7

US-08-577-788C-53
; Sequence 53, Application US/08577788C
; Patent No. 6613544
; GENERAL INFORMATION:
; APPLICANT: Boyle, William
; APPLICANT: Lacey, David
; APPLICANT: Calzone, Frank
; APPLICANT: Chang, Ming-Shi
; TITLE OF INVENTION: Osteoprotegerin
; FILE REFERENCE: A-378 Rev
; CURRENT APPLICATION NUMBER: US/08/577,788C
; CURRENT FILING DATE: 1995-12-22
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 53
; LENGTH: 191
; TYPE: PRT
; ORGANISM: Mus musculus
US-08-577-788C-53

Query Match 100.0%; Score 139; DB 4; Length 191;
Best Local Similarity 100.0%; Pred. No. 7.8e-14;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CRPWTNCSLDGRSVLKTGTTEKDVV 25
Db 133 CRPWTNCSLDGRSVLKTGTTEKDVV 157

RESULT 8

US-08-236-918A-6
; Sequence 6, Application US/08236918A
; Patent No. 5674704
; GENERAL INFORMATION:
; APPLICANT: Alderson, Mark R.
; APPLICANT: Goodwin, Raymond G.
; APPLICANT: Smith, Craig A.
; TITLE OF INVENTION: Cytokine Designated 4-1BB Ligand
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Kathryn A. Anderson, Immunex Corporation
; STREET: 51 University Street
; CITY: Seattle
; STATE: Washington
; COUNTRY: US
; ZIP: 98101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: Apple Power Macintosh
; OPERATING SYSTEM: Apple 7.5.3
; SOFTWARE: Microsoft Word, Version #6.0.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/236,918A
; FILING DATE: 06-May-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/060,843

RESULT 2
US-08-795-445A-52
; Sequence 52, Application US/08795445A
; Patent No. 6284485
; GENERAL INFORMATION:
; APPLICANT: Boyle, William J.
; APPLICANT: Lacey, David L.
; APPLICANT: Calzone, Frank J.
; APPLICANT: Chang, Ming-Shi
; TITLE OF INVENTION: OSTEOPROTEGERIN
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Amgen Inc.
; STREET: 1840 Dehavilland Drive
; CITY: Thousand Oaks
; STATE: California
; COUNTRY: USA
; ZIP: 91320-1789
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION NUMBER: 08/577,788
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Winter, Robert B.
; REFERENCE/DOCKET NUMBER: A-378
; INFORMATION FOR SEQ ID NO: 52:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-795-445A-52

Query Match 100.0%; Score 139; DB 3; Length 191;
Best Local Similarity 100.0%; Pred. No. 7.9e-14;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CRPWNCSLDGRSVLKTGTTEKDVV 25
Db 133 CRPWNCSLDGRSVLKTGTTEKDVV 157

RESULT 3
US-08-795-447A-52
; Sequence 52, Application US/08795447A
; Patent No. 6284728
; GENERAL INFORMATION:
; APPLICANT: Boyle, William J.
; APPLICANT: Lacey, David L.
; APPLICANT: Calzone, Frank J.
; APPLICANT: Chang, Ming-Shi
; TITLE OF INVENTION: Osteoprotegerin
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Amgen Inc.
; STREET: One Amgen Center Drive
; CITY: Thousand Oaks
; STATE: California
; COUNTRY: USA
; ZIP: 91362-1789
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/795,447A
; FILING DATE:
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Winter, Robert B.
; REFERENCE/DOCKET NUMBER: A-378D2
; INFORMATION FOR SEQ ID NO: 52:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-795-447A-52

Query Match 100.0%; Score 139; DB 3; Length 191;
Best Local Similarity 100.0%; Pred. No. 7.9e-14;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CRPWNCSLDGRSVLKTGTTEKDVV 25
Db 133 CRPWNCSLDGRSVLKTGTTEKDVV 157

RESULT 4
US-08-974-186-52
; Sequence 52, Application US/08974186
; Patent No. 6284740
; GENERAL INFORMATION:
; APPLICANT: Boyle, William J.
; APPLICANT: Lacey, David L.
; APPLICANT: Calzone, Frank J.
; APPLICANT: Chang, Ming-Shi
; TITLE OF INVENTION: OSTEOPROTEGERIN
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Amgen Inc.
; STREET: 1840 Dehavilland Drive
; CITY: Thousand Oaks
; STATE: California
; COUNTRY: USA
; ZIP: 91320-1789
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION NUMBER: 08/577,788
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Winter, Robert B.
; REFERENCE/DOCKET NUMBER: A-378
; INFORMATION FOR SEQ ID NO: 52:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-974-186-52

Query Match 100.0%; Score 139; DB 3; Length 191;
Best Local Similarity 100.0%; Pred. No. 7.9e-14;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen, Ltd.

OM protein - protein search, using sw model
February 24, 2005, 19:25:00 ; Search time 42.3611 Seconds
(without alignments)
44.055 Million cell updates/sec

Title: US-10-067-122B-2_COPY_133_157

Perfect score: 139
Sequence: 1 CRPWTNCSLDGRSVLKTGTTEKDVV 25

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

- Database :
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 - 2: /cgn2_6/ptodata/1/iaa/5B COMB.pcp.*
 - 3: /cgn2_6/ptodata/1/iaa/6A COMB.pcp.*
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 - 5: /cgn2_6/ptodata/1/iaa/PCTUS COMB.pcp.*
 - 6: /cgn2_6/ptodata/1/iaa/backfiles1.pcp.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	139	100.0	191	3	US-08-795-445A-52
3	139	100.0	191	3	US-08-795-447A-52
4	139	100.0	191	3	US-08-974-186-52
5	139	100.0	191	3	US-08-795-446B-52
6	139	100.0	191	3	US-08-706-945D-139
7	139	100.0	191	4	US-08-577-788C-53
8	139	100.0	256	1	US-08-236-918A-6
9	139	100.0	256	3	US-09-150-864A-6
10	139	100.0	256	3	US-08-012-269A-2
11	139	100.0	256	4	US-09-623-545A-3
12	139	100.0	256	5	PCT-US96-03965-2
13	115	82.7	132	4	US-09-523-323-55
14	115	82.7	219	2	US-08-816-605-2
15	115	82.7	255	1	US-08-236-918A-8
16	115	82.7	255	2	US-08-816-605-9
17	115	82.7	255	3	US-09-006-353A-11
18	115	82.7	255	3	US-09-007-097-2
19	115	82.7	255	3	US-09-150-864A-8
20	115	82.7	255	4	US-09-573-986-11
21	115	82.7	255	4	US-09-578-764A-2
22	115	82.7	255	4	US-09-623-545A-2
23	115	82.7	255	5	PCT-US96-03965-8
24	115	82.7	272	4	US-09-949-016-7520
25	86	61.9	625	3	US-08-996-139-15
26	86	61.9	625	3	US-08-995-659-15
27	86	61.9	625	3	US-09-215-649A-15

28	86	61.9	625	4	US-09-577-780-15	Sequence 15, Appl
29	86	61.9	625	4	US-09-577-800-15	Sequence 15, Appl
30	86	61.9	625	4	US-09-466-496-15	Sequence 15, Appl
31	86	61.9	625	4	US-09-871-856-15	Sequence 15, Appl
32	86	61.9	625	4	US-09-871-291-15	Sequence 15, Appl
33	86	61.9	625	4	US-09-877-650-15	Sequence 15, Appl
34	86	61.9	625	4	US-09-865-363-15	Sequence 15, Appl
35	86	61.9	625	4	US-09-688-459-15	Sequence 15, Appl
36	79	56.8	334	4	US-09-949-016-9975	Sequence 9975, Ap
37	75	54.0	451	3	US-08-996-139-4	Sequence 4, Appl
38	75	54.0	451	3	US-08-995-659-4	Sequence 4, Appl
39	75	54.0	451	3	US-09-215-649A-4	Sequence 4, Appl
40	75	54.0	451	4	US-09-577-780-4	Sequence 4, Appl
41	75	54.0	451	4	US-09-577-800-4	Sequence 4, Appl
42	75	54.0	451	4	US-09-466-496-4	Sequence 4, Appl
43	75	54.0	451	4	US-09-871-856-4	Sequence 4, Appl
44	75	54.0	451	4	US-09-871-291-4	Sequence 4, Appl
45	75	54.0	451	4	US-09-877-650-4	Sequence 4, Appl

ALIGNMENTS

RESULT 1
US-08-974-022-52
; Sequence 52, Application US/08974022
; Patent No. 6015938
; GENERAL INFORMATION:
; APPLICANT: Boyle, William J.
; APPLICANT: Lacey, David L.
; APPLICANT: Calzone, Frank J.
; APPLICANT: Chang, Ming-Shi
; TITLE OF INVENTION: OSTEOPROTEGERIN
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Amgen Inc.
; STREET: 1840 Dehavilland Drive
; CITY: Thousand Oaks
; STATE: California
; COUNTRY: USA
; ZIP: 91320-1789
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/974,022
; FILING DATE: 12-DEC-1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/577,788
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Winter, Robert B.
; REFERENCE/DOCKET NUMBER: A-378
; INFORMATION FOR SEQ ID NO: 52:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 191 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-974-022-52

Query Match 100.0%; Score 139; DB 3; Length 191;
Best Local Similarity 100.0%; Pred. No. 7.8e-14;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CRPWTNCSLDGRSVLKTGTTEKDVV 25
DB 133 CRPWTNCSLDGRSVLKTGTTEKDVV 157

US 2004248812	A1	20041209	US 2004-777179	A1	20040213	(10)
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WO 2003-JP5453 20030428

APPLICATION

OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C., 1940

8

I

624

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides a novel basic amino acid derivative represented by the following formula (1). ##STR1##

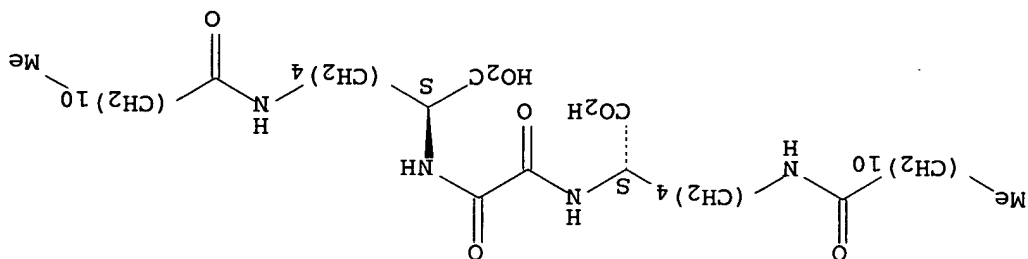
(In the formula, R.sup.1 and R.sup.2 each independently is a straight-chain or branched-alkyl or alkenyl group having 5 to 21 carbon atoms; R.sup.3 and R.sup.4 each independently is an alkyl or alkenyl group having 1 to 22 carbon atom(s), hydroxygen atom, alkaline metal or alkaline earth metal in which the alkyl or alkenyl group may be either in straight-chain or branched-chain or may have a cyclic structure; z is an integer of 0 or more; and x and y each is an integer of 2 to 4.) In accordance with the basic amino acid derivative of the present invention, its small adding amount is able to gel or solidify various kinds of liquid organic media or liquid aqueous media whereupon there is provided a gelling agent or a solidifying agent being easily synthesized by a simple method and giving a gelled product being excellent stability for a long period at ambient temperature and there is also provided gel and perfluoropolyether/cosmetic containing the same.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT 615584-80-0P 615584-85-5P 615584-86-6P

785816-56-0P (preparation of basic amino acid derivs. as gelation agents)

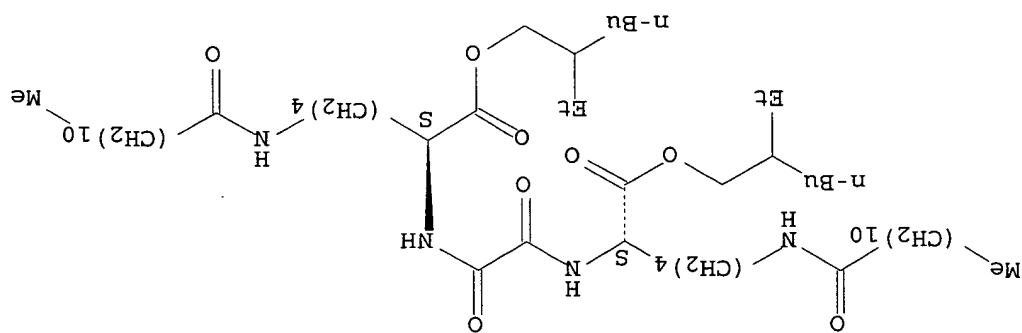
CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediy1)bis[N6-(1-oxododecyl)] - (9CI) (CA INDEX NAME).

Absolute stereochemistry.



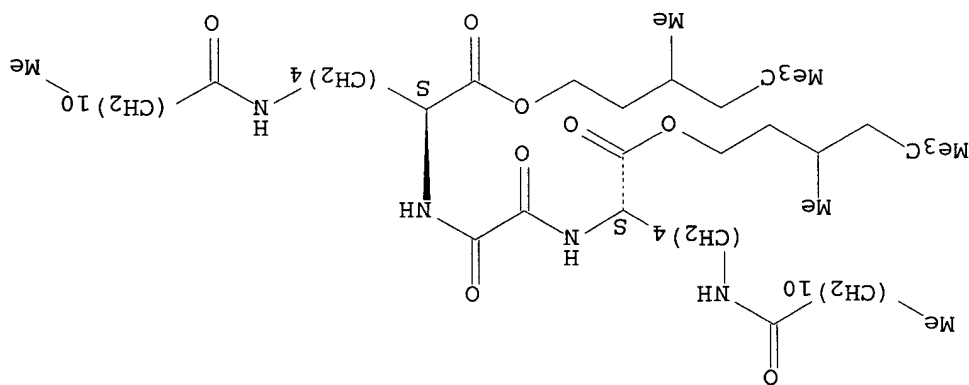
Absolute stereochemistry.

RN 615584-85-5 USPATFULL
CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanedilyl)bis[N6-(1-oxododecyl)-, bis(2-ethylhexyl) ester (9CI) (CA INDEX NAME)



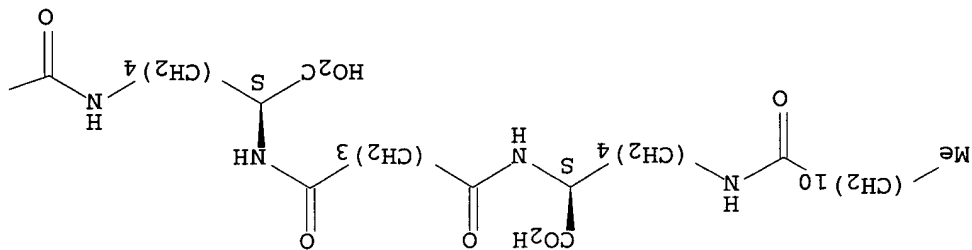
RN 615584-86-6 USPATFULL
 CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanedyl) bis[N6-(1-oxododecyl)]-, bis(3,5,5-trimethylhexyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 785816-56-0 USPATFULL
 CN L-Lysine, N2,N2'-(1,5-dioxo-1,5-pentanedyl) bis[N6-(1-oxododecyl)]-, sodium salt (9CI) (CA INDEX NAME)

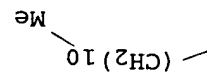
Absolute stereochemistry.



● x Na

PAGE 1-A

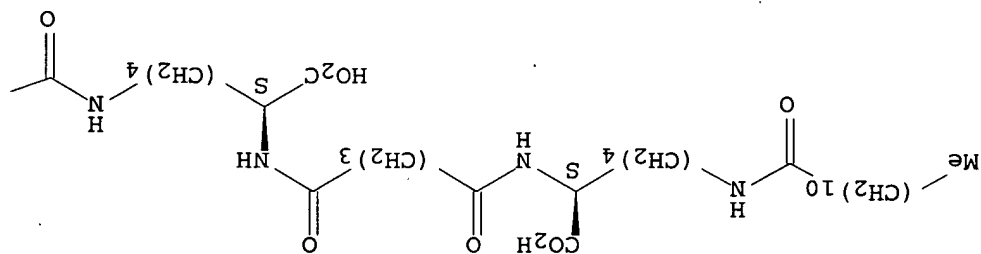
PAGE 1-B



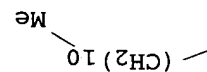
IT 658051-86-6
 RN 658051-86-6 USPATFULL
 CN L-Lysine, N2,N2'-(1,5-dioxo-1,5-pentanediy1)bis[N6-(1-oxododecyl)] - (9CI)
 (preparation of basic amino acid derivs. as gelation agents)
 (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



FILE 'HOME' ENTERED AT 12:04:33 ON 16 MAR 2005

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 24, 2005, 19:25:00 ; Search time 18.6389 Seconds
(without alignments)
44.055 Million cell updates/sec

Title: US-10-067-122B-2_COPY_105_115
Perfect score: 62
Sequence: 1 CRPGOELTKOG 11

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
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3: /cgn2_6/prodata/1/1aa/5A_COMB.pep:*
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5: /cgn2_6/prodata/1/1aa/PCTUS_COMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	62	100.0	11	3	US-08-012-269A-13
2	62	100.0	191	3	US-08-974-022-52
3	62	100.0	191	3	US-08-974-022-52
4	62	100.0	191	3	US-08-974-022-52
5	62	100.0	191	3	US-08-974-022-52
6	62	100.0	191	3	US-08-974-022-52
7	62	100.0	191	3	US-08-974-022-52
8	62	100.0	191	3	US-08-974-022-52
9	62	100.0	191	3	US-08-974-022-52
10	62	100.0	191	3	US-08-974-022-52
11	62	100.0	191	3	US-08-974-022-52
12	62	100.0	191	3	US-08-974-022-52
13	62	100.0	191	3	US-08-974-022-52
14	62	100.0	191	3	US-08-974-022-52
15	62	100.0	191	3	US-08-974-022-52
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25	62	100.0	191	3	US-08-974-022-52
26	62	100.0	191	3	US-08-974-022-52
27	62	100.0	191	3	US-08-974-022-52

28	41	66.1	196	4	US-09-746-359A-67	Sequence 67, Appl
29	41	66.1	201	4	US-09-746-359A-59	Sequence 59, Appl
30	41	66.1	203	4	US-09-746-359A-15	Sequence 15, Appl
31	41	66.1	307	4	US-09-746-359A-58	Sequence 58, Appl
32	41	66.1	311	4	US-09-746-359A-14	Sequence 14, Appl
33	41	66.1	336	4	US-09-746-359A-57	Sequence 57, Appl
34	40	64.5	297	4	US-09-548-130-6	Sequence 6, Appl
35	40	64.5	297	4	US-09-548-130-6	Sequence 7016, Ap
36	40	64.5	297	4	US-09-548-130-6	Sequence 1181, A
37	40	64.5	299	4	US-09-548-130-3	Sequence 3, Appl
38	40	64.5	299	4	US-10-119-466-12	Sequence 12, Appl
39	39	62.9	228	3	US-08-911-423-2	Sequence 7, Appl
40	39	62.9	228	4	US-09-512-363-7	Sequence 7, Appl
41	39	62.9	228	4	US-09-176-200-7	Sequence 7, Appl
42	39	62.9	228	4	US-09-915-593-7	Sequence 7, Appl
43	38	61.3	133	4	US-09-902-540-14191	Sequence 14191, A
44	38	61.3	997	4	US-09-747-371-3	Sequence 3, Appl
45	38	61.3	999	4	US-09-747-371-2	Sequence 2, Appl

ALIGNMENTS

RESULT 1
US-08-012-269A-13
; Sequence 13, Application US/08012269A
; Patent No. 6362325
; GENERAL INFORMATION:
; APPLICANT: Kwon, Byoung S.
; TITLE OF INVENTION: MORINE 4-1BB GENE
; FILE REFERENCE: 740.009US1
; CURRENT APPLICATION NUMBER: US/08/012,269A
; CURRENT FILING DATE: 1993-02-01
; PRIOR APPLICATION NUMBER: US 07/922,996
; PRIOR FILING DATE: 1992-07-30
; PRIOR APPLICATION NUMBER: US 07/267,572
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Mus musculus
US-08-012-269A-13

Query Match 100.0%; Score 62; DB 3; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.00011;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CRPGOELTKOG 11
Db 1 CRPGOELTKOG 11

RESULT 2
US-08-974-022-52
; Sequence 52, Application US/08974022
; Patent No. 6015938
; GENERAL INFORMATION:
; APPLICANT: Boyle, William J.
; APPLICANT: Lacey, David L.
; APPLICANT: Calzone, Frank J.
; APPLICANT: Chang, Ming-Shi
; TITLE OF INVENTION: OSTROPROTEGERIN
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESS: Amgen Inc.
; STREET: 1840 Devonland Drive
; CITY: Thousand Oaks
; STATE: California
; COUNTRY: USA
; ZIP: 91320-1789
; COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/974,022
FILING DATE: 12-DEC-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/577,788
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Winter, Robert B.
REFERENCE/DOCKET NUMBER: A-378
INFORMATION FOR SEQ ID NO: 52:
SEQUENCE CHARACTERISTICS:
LENGTH: 191 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-974-022-52

Query Match 100.0%; Score 62; DB 3; Length 191;
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CRPGGELTKQG 11
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DB 105 CRPGGELTKQG 115

RESULT 3
US-08-795-445A-52
Sequence 52, Application US/08795445A
Patent No. 6284485
GENERAL INFORMATION:
APPLICANT: Boyle, William J.
APPLICANT: Lacey, David L.
APPLICANT: Calzone, Frank J.
APPLICANT: Chang, Ming-Shi
TITLE OF INVENTION: OSTEOPROTEGERIN
NUMBER OF SEQUENCES: 53
CORRESPONDENCE ADDRESS:
ADDRESSEE: Amgen Inc.
STREET: 1840 Dehavilland Drive
CITY: Thousand Oaks
STATE: California
COUNTRY: USA
ZIP: 91320-1789
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/795,445A
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/577,788
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Winter, Robert B.
REFERENCE/DOCKET NUMBER: A-378
INFORMATION FOR SEQ ID NO: 52:
SEQUENCE CHARACTERISTICS:
LENGTH: 191 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-795-445A-52

Query Match 100.0%; Score 62; DB 3; Length 191;
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CRPGGELTKQG 11
|||||
DB 105 CRPGGELTKQG 115

RESULT 4
US-08-795-447A-52
Sequence 52, Application US/08795447A
Patent No. 6284728
GENERAL INFORMATION:
APPLICANT: Boyle, William J.
APPLICANT: Lacey, David L.
APPLICANT: Calzone, Frank J.
APPLICANT: Chang, Ming-Shi
TITLE OF INVENTION: Osteoprotegerin
NUMBER OF SEQUENCES: 53
CORRESPONDENCE ADDRESS:
ADDRESSEE: Amgen Inc.
STREET: One Amgen Center Drive
CITY: Thousand Oaks
STATE: California
COUNTRY: USA
ZIP: 91362-1789
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/795,447A
FILING DATE:
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Winter, Robert B.
REFERENCE/DOCKET NUMBER: A-378D2
INFORMATION FOR SEQ ID NO: 52:
SEQUENCE CHARACTERISTICS:
LENGTH: 191 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-795-447A-52

Query Match 100.0%; Score 62; DB 3; Length 191;
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CRPGGELTKQG 11
|||||
DB 105 CRPGGELTKQG 115

RESULT 5
US-08-974-186-52
Sequence 52, Application US/08974186
Patent No. 6284740
GENERAL INFORMATION:
APPLICANT: Boyle, William J.
APPLICANT: Lacey, David L.
APPLICANT: Calzone, Frank J.
APPLICANT: Chang, Ming-Shi
TITLE OF INVENTION: OSTEOPROTEGERIN
NUMBER OF SEQUENCES: 53
CORRESPONDENCE ADDRESS:
ADDRESSEE: Amgen Inc.
STREET: 1840 Dehavilland Drive
CITY: Thousand Oaks

STATE: California
COUNTRY: USA
ZIP: 91320-1789
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/974,186
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/577,788
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Winter, Robert B.
REFERENCE/DOCKET NUMBER: A-378
INFORMATION FOR SEQ ID NO: 52:
SEQUENCE CHARACTERISTICS:
LENGTH: 191 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-974-186-52

Query Match 100.0%; Score 62; DB 3; Length 191;
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CRPGOELTKOG 11
|||||
Db 105 CRPGOELTKOG 115

RESULT 6
US-08-795-446B-52
Sequence 52, Application US/08795446B
Patent No. 6288032
GENERAL INFORMATION:
APPLICANT: Boyle, William J.
APPLICANT: Lacey, David L.
APPLICANT: Calzone, Frank J.
APPLICANT: Chang, Ming-Shi
TITLE OF INVENTION: OSTEOPROTEGERIN
NUMBER OF SEQUENCES: 53
CORRESPONDENCE ADDRESS:
ADDRESSEE: Amgen Inc.
STREET: 1840 Dehavilland Drive
CITY: Thousand Oaks
STATE: California
COUNTRY: USA
ZIP: 91320-1789
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/795,446B
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/577,788
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Winter, Robert B.
REFERENCE/DOCKET NUMBER: A-378
INFORMATION FOR SEQ ID NO: 52:
SEQUENCE CHARACTERISTICS:
LENGTH: 191 amino acids
TYPE: amino acid

STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-795-446B-52

Query Match 100.0%; Score 62; DB 3; Length 191;
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CRPGOELTKOG 11
|||||
Db 105 CRPGOELTKOG 115

RESULT 7
US-08-706-945D-139
Sequence 139, Application US/08706945D
Patent No. 6369027
GENERAL INFORMATION:
APPLICANT: Boyle, William
APPLICANT: Lacey, David
APPLICANT: Calzone, Frank
APPLICANT: Chang, Ming-Shi
TITLE OF INVENTION: Osteoprotegerin
FILE REFERENCE: A-378CIP
CURRENT APPLICATION NUMBER: US/08/706,945D
CURRENT FILING DATE: 1996-09-03
PRIOR APPLICATION NUMBER: 08/577,788
PRIOR FILING DATE: 1995-12-22
NUMBER OF SEQ ID NOS: 145
SOFTWARE: PatentIn version 3.1
SEQ ID NO 139
LENGTH: 191
TYPE: PRT
ORGANISM: Homo sapiens
US-08-706-945D-139

Query Match 100.0%; Score 62; DB 3; Length 191;
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CRPGOELTKOG 11
|||||
Db 105 CRPGOELTKOG 115

RESULT 8
US-08-577-788C-53
Sequence 53, Application US/08577788C
Patent No. 6613544
GENERAL INFORMATION:
APPLICANT: Boyle, William
APPLICANT: Lacey, David
APPLICANT: Calzone, Frank
APPLICANT: Chang, Ming-Shi
TITLE OF INVENTION: Osteoprotegerin
FILE REFERENCE: A-378 Rev
CURRENT APPLICATION NUMBER: US/08/577,788C
CURRENT FILING DATE: 1995-12-22
NUMBER OF SEQ ID NOS: 58
SOFTWARE: PatentIn version 3.1
SEQ ID NO 53
LENGTH: 191
TYPE: PRT
ORGANISM: Mus musculus
US-08-577-788C-53

Query Match 100.0%; Score 62; DB 4; Length 191;
Best Local Similarity 100.0%; Pred. No. 0.0022;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CRPGOELTKOG 11
|||||

Db 105 CRPGELTKOG 115

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RESULT 9
US-08-236-918A-6
; Sequence 6, Application US/08236918A
; Patent No. 5674704
; GENERAL INFORMATION:
; APPLICANT: Alderson, Mark R.
; APPLICANT: Goodwin, Raymond G.
; APPLICANT: Smith, Craig A.
; TITLE OF INVENTION: Cytokine Designated 4-1BB Ligand
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Kathryn A. Alderson, Immunex Corporation
; STREET: 51 University Street
; CITY: Seattle
; STATE: Washington
; COUNTRY: US
; ZIP: 98101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: Apple Power Macintosh
; OPERATING SYSTEM: Apple 7.5.3
; SOFTWARE: Microsoft Word, Version #6.0.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/236,918A
; FILING DATE: 06-May-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/060,843
; FILING DATE: 07-May-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Anderson, Kathryn A.
; REGISTRATION NUMBER: 32,172
; REFERENCE/DOCKET NUMBER: 2801-B
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 587-0430
; TELEFAX: (206) 233-0644
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 256 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-236-918A-6

Query Match 100.0%; Score 62; DB 1; Length 256;
Best Local Similarity 100.0%; Pred. No. 0.003;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CRPGELTKOG 11
Db 105 CRPGELTKOG 115

RESULT 10
US-09-150-864A-6
; Sequence 6, Application US/09150864A
; Patent No. 6355779
; GENERAL INFORMATION:
; APPLICANT: Alderson, Mark R.
; APPLICANT: Goodwin, Raymond G.
; APPLICANT: Smith, Craig A.
; TITLE OF INVENTION: Cytokine Designated 4-1BB Ligand and Human Receptor
; FILE REFERENCE: 2801-B
; CURRENT APPLICATION NUMBER: US/09/150,864A
; CURRENT FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 08/060,843
; PRIOR FILING DATE: 1993-05-07
; NUMBER OF SEQ ID NOS: 18
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; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Mus sp. (clone: mu4-1BB)
US-09-150-864A-6
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Query Match 100.0%; Score 62; DB 3; Length 256;
Best Local Similarity 100.0%; Pred. No. 0.003;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CRPGELTKOG 11
Db 105 CRPGELTKOG 115

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RESULT 11
US-08-012-269A-2
; Sequence 2, Application US/08012269A
; Patent No. 6362325
; GENERAL INFORMATION:
; APPLICANT: Kwon, Byoung S.
; TITLE OF INVENTION: KURINE 4-1BB GENE
; FILE REFERENCE: 740.009US1
; CURRENT APPLICATION NUMBER: US/08/012,269A
; CURRENT FILING DATE: 1993-02-01
; PRIOR APPLICATION NUMBER: US 07/922,996
; PRIOR FILING DATE: 1992-07-30
; PRIOR APPLICATION NUMBER: US 07/267,572
; PRIOR FILING DATE: 1988-11-07
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Mus musculus
US-08-012-269A-2
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Query Match 100.0%; Score 62; DB 3; Length 256;
Best Local Similarity 100.0%; Pred. No. 0.003;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CRPGELTKOG 11
Db 105 CRPGELTKOG 115

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RESULT 12
US-09-623-545A-3
; Sequence 3, Application US/09623545A
; Patent No. 6627200
; GENERAL INFORMATION:
; APPLICANT: Merckle GmbH
; TITLE OF INVENTION: UTILIZATION OF CD137 IN ORDER TO PROMOTE THE
; PROLIFERATION OF PERIPHERAL MONOCYTES
; FILE REFERENCE: 30424.1USWO
; CURRENT APPLICATION NUMBER: US/09/623,545A
; CURRENT FILING DATE: 2000-09-05
; PRIOR APPLICATION NUMBER: EPO 98103859.9
; PRIOR FILING DATE: 1999-03-05
; PRIOR APPLICATION NUMBER: PCT/EP99/01440
; PRIOR FILING DATE: 1999-03-05
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-623-545A-3
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Query Match 100.0%; Score 62; DB 4; Length 256;
Best Local Similarity 100.0%; Pred. No. 0.003;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CRPGOELTKOG 11
|||||
Db 105 CRPGOELTKOG 115

RESULT 13
PCT-US96-03965-2
Sequence 2, Application PC/TUS9603965
GENERAL INFORMATION:

APPLICANT: Kwon, Byoung Se
APPLICANT: Kang, Chang-yull
TITLE OF INVENTION: Monoclonal antibody against human
NUMBER OF INVENTIONS: receptor 4-1B8
CORRESPONDENCE ADDRESS:
ADDRESSES: Barnard, Brown & Michaels
STREET: 306 East State Street, Suite 220
CITY: Ithaca
STATE: NY
COUNTRY: USA

ZIP: 14850
COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US96/03965
FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/122,796
FILING DATE: 16-SEP-1993

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/012,269
FILING DATE: 01-FEB-1993

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/922,996
FILING DATE: 30-JUL-1992

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/267,577
FILING DATE: 07-NOV-1988

ATTORNEY/AGENT INFORMATION:
NAME: Michaels, Christopher A
REGISTRATION NUMBER: 34,390

REFERENCE/DOCKET NUMBER: KWOS
TELECOMMUNICATION INFORMATION:
TELEPHONE: 607-273-1711

TELEFAX: 607-273-2609
INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:
LENGTH: 256 amino acids
TYPE: amino acid

TOPOLOGY: linear
MOLECULE TYPE: protein
PCT-US96-03965-2

Query Match 100.0%; Score 62; DB 5; Length 256;
Best Local Similarity 100.0%; Pred. No. 0.003;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 CRPGOELTKOG 11
|||||
Db 105 CRPGOELTKOG 115

RESULT 14
US-08-012-269A-7

Sequence 7, Application US/08012269A
Patent No. 6362325
GENERAL INFORMATION:
APPLICANT: Kwon, Byoung S.

TITLE OF INVENTION: MURINE 4-1B8 GENE
FILE REFERENCE: 740.009US1
CURRENT APPLICATION NUMBER: US/08/012,269A
CURRENT FILING DATE: 1993-02-01
PRIOR APPLICATION NUMBER: US 07/922,996
PRIOR FILING DATE: 1992-07-30
PRIOR APPLICATION NUMBER: US 07/267,572
PRIOR FILING DATE: 1988-11-07
NUMBER OF SEQ ID NOS: 13
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 7
LENGTH: 12
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: An artificial peptide
US-08-012-269A-7

Query Match 91.9%; Score 57; DB 3; Length 12;
Best Local Similarity 90.9%; Pred. No. 0.00096;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db 1 CRPGOELTKOG 11

RESULT 15
US-09-523-323-55

Sequence 55, Application US/09523323
Patent No. 6635743
GENERAL INFORMATION:

APPLICANT: Eder, Reinhard
APPLICANT: Yu, Guo-Liang

APPLICANT: Ruben, Steven M.
APPLICANT: Ullrich, Stephen

APPLICANT: Zhai, Yifan
TITLE OF INVENTION: Apoptosis Inducing Molecule II and Methods of Use

FILE REFERENCE: 1488.065000C
CURRENT APPLICATION NUMBER: US/09/523,323
FILING DATE: 2000-03-10

EARLIER APPLICATION NUMBER: 60/168,380
FILING DATE: 1999-12-02

EARLIER APPLICATION NUMBER: 60/148,326
FILING DATE: 1999-08-11

EARLIER APPLICATION NUMBER: 60/142,657
FILING DATE: 1999-07-06

EARLIER APPLICATION NUMBER: 60/137,457
FILING DATE: 1999-06-04

EARLIER APPLICATION NUMBER: 60/124,041
FILING DATE: 1999-03-11

EARLIER APPLICATION NUMBER: 09/252,656
FILING DATE: 1999-02-19

EARLIER APPLICATION NUMBER: 60/075,409
FILING DATE: 1998-02-20

EARLIER APPLICATION NUMBER: 09/027,287
FILING DATE: 1998-02-20

EARLIER APPLICATION NUMBER: 09/003,886
FILING DATE: 1998-01-07

EARLIER APPLICATION NUMBER: 08/822,953
FILING DATE: 1997-03-21

EARLIER APPLICATION NUMBER: 60/013,923
FILING DATE: 1996-03-22

EARLIER APPLICATION NUMBER: 60/030,157
FILING DATE: 1996-10-31

NUMBER OF SEQ ID NOS: 70
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 55

LENGTH: 132

TYPE: PRT

ORGANISM: Homo sapiens

US-09-523-323-55

Query Match 75.8%; Score 47; DB 4; Length 132;
Best Local Similarity 72.7%; Pred. No. 0.68%;
Matches 8; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 CRPGQELTKQG 11
|:|||||:
Db 79 CKQGQELTKKG 89

Search completed: February 24, 2005, 19:37:22
Job time : 19.6389 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: February 24, 2005, 19:35:42 ; Search time 54.0833 Seconds
(without alignments)
66.557 Million cell updates/sec

Title: US-10-067-122b-2_COPY_105_115
Perfect score: 62
Sequence: 1 CRPQGLTKQG 11

Scoring table: BLASTSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1380268 seqs, 327241040 residues

Total number of hits satisfying chosen parameters: 1380268

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Published Applications AA:*

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- 19: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*
- 20: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	62	100.0	11	14	US-10-067-122-13
2	62	100.0	191	10	US-09-405-032-136
3	62	100.0	256	13	US-10-027-199-10
4	62	100.0	256	14	US-10-067-122-2
5	57	91.9	12	14	US-10-067-122-7
6	47	75.8	132	15	US-10-375-680-55
7	47	75.8	219	9	US-09-739-394-2
8	47	75.8	219	13	US-10-097-330-2
9	47	75.8	255	9	US-09-739-394-9
10	47	75.8	255	9	US-09-826-212-11
11	47	75.8	255	9	US-09-935-727-13
12	47	75.8	255	10	US-09-877-336-2
13	47	75.8	255	11	US-09-877-338-2

14	47	75.8	255	13	US-10-097-330-9	Sequence 9, Appli
15	47	75.8	255	13	US-10-027-199-2	Sequence 2, Appli
16	47	75.8	255	14	US-10-170-997-2	Sequence 2, Appli
17	47	75.8	255	14	US-10-186-643-11	Sequence 11, Appli
18	47	75.8	255	14	US-10-207-655-160	Sequence 160, App
19	47	75.8	255	15	US-10-418-242-13	Sequence 13, Appli
20	47	75.8	255	16	US-10-646-308-18	Sequence 174, Appli
21	47	75.8	255	16	US-10-755-889-174	Sequence 174, App
22	43	69.4	265	16	US-10-480-172-23	Sequence 23, Appli
23	43	69.4	845	9	US-09-898-570-12	Sequence 12, Appli
24	43	69.4	845	10	US-09-839-446-12	Sequence 12, Appli
25	43	69.4	880	15	US-10-104-047-2834	Sequence 2834, Ap
26	43	69.4	897	14	US-10-239-663-35	Sequence 35, Appli
27	43	69.4	897	16	US-10-470-390A-12	Sequence 12, Appli
28	43	69.4	914	15	US-10-406-073-6	Sequence 6, Appli
29	43	69.4	939	16	US-10-480-172-22	Sequence 22, Appli
30	43	69.4	974	9	US-09-898-570-14	Sequence 14, Appli
31	43	69.4	974	10	US-09-839-446-14	Sequence 14, Appli
32	43	69.4	993	14	US-10-239-663-36	Sequence 36, Appli
33	43	69.4	993	15	US-10-406-073-8	Sequence 8, Appli
34	43	69.4	993	15	US-10-406-073-15	Sequence 15, Appli
35	43	69.4	993	16	US-10-480-172-21	Sequence 21, Appli
36	43	69.4	1006	11	US-09-930-512-18	Sequence 18, Appli
37	43	69.4	1009	9	US-09-898-570-16	Sequence 16, Appli
38	43	69.4	1009	10	US-09-839-446-16	Sequence 16, Appli
39	43	69.4	1009	16	US-10-480-172-20	Sequence 20, Appli
40	41	66.1	15	14	US-10-220-033-38	Sequence 38, Appli
41	41	66.1	135	9	US-09-746-359A-70	Sequence 70, Appli
42	41	66.1	135	11	US-09-745-792A-70	Sequence 70, Appli
43	41	66.1	135	15	US-10-424-658-70	Sequence 70, Appli
44	41	66.1	196	9	US-09-746-359A-67	Sequence 67, Appli
45	41	66.1	196	11	US-09-745-792A-67	Sequence 67, Appli

ALIGNMENTS

RESULT 1
US-10-067-122-13
; Sequence 13, Application US/10067122
; Publication No. US20030100745A1
; GENERAL INFORMATION:
; APPLICANT: Kwon, Byoung S.
; TITLE OF INVENTION: MORINE 4-1BB GENE
; FILE REFERENCE: 740.009US1
; CURRENT FILING DATE: 2002-02-04
; PRIOR APPLICATION NUMBER: US/10/067,122
; PRIOR FILING DATE: 1993-02-01
; PRIOR APPLICATION NUMBER: 08/012,269
; PRIOR FILING DATE: 1992-07-30
; PRIOR APPLICATION NUMBER: US 07/922,996
; PRIOR FILING DATE: 1992-07-30
; PRIOR APPLICATION NUMBER: US 07/267,572
; PRIOR FILING DATE: 1988-11-07
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 11
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-067-122-13

Query Match 100.0%; Score 62; DB 14; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.00028;
Matches 11; Conservative 0; Mismatches 0; Indels 0;
Gaps 0;

Qy 1 CRPQGLTKQG 11
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Db 1 CRPQGLTKQG 11

RESULT 2
US-09-405-032-136
; Sequence 136, Application US/09405032

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Publication No. US20030207827A1
GENERAL INFORMATION:
APPLICANT: Amgen Inc.
TITLE OF INVENTION: OSTEOPROTEGERIN
NUMBER OF SEQUENCES: 168
CORRESPONDENCE ADDRESS:
ADDRESSER: Amgen Inc.
STREET: 1840 Dehavenland Drive
CITY: Thousand Oaks
STATE: California
COUNTRY: United States
ZIP: 91320
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/405,032
FILING DATE: 24-Sep-1999
CLASSIFICATION: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Winter, Robert B.
REFERENCE/DOCKET NUMBER: A-378-CIP2
INFORMATION FOR SEQ ID NO: 136:
SEQUENCE CHARACTERISTICS:
LENGTH: 191 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 136:
US-09-405-032-136

Query Match          100.0%; Score 62; DB 10; Length 191;
Best Local Similarity 100.0%; Pred. No. 0.0055;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 CRPGQELTKQG 11
DB      105 CRPGQELTKQG 115

RESULT 3
US-10-027-199-10
Sequence 10, Application US/10027199
Publication No. US20020168719A1
GENERAL INFORMATION:
APPLICANT: Kwon, Byoung
TITLE OF INVENTION: NEW RECEPTOR AND RELATED PRODUCTS AND
METHODS
FILE REFERENCE: 740.013US2
CURRENT APPLICATION NUMBER: US/10/027,199
CURRENT FILING DATE: 2001-12-20
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/955,572
PRIOR FILING DATE: EARLIER FILING DATE: 1997-10-22
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/461,652
PRIOR FILING DATE: EARLIER FILING DATE: 1995-06-05
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/122,796
PRIOR FILING DATE: EARLIER FILING DATE: 1993-09-03
NUMBER OF SEQ ID NOS: 12
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 10
LENGTH: 256
TYPE: PRT
ORGANISM: Mus musculus
US-10-027-199-10

Query Match          100.0%; Score 62; DB 13; Length 256;
Best Local Similarity 100.0%; Pred. No. 0.0075;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 CRPGQELTKQG 11
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DB      105 CRPGQELTKQG 115

RESULT 4
US-10-067-122-2
Sequence 2, Application US/10067122
Publication No. US20030100745A1
GENERAL INFORMATION:
APPLICANT: Kwon, Byoung S.
TITLE OF INVENTION: MURINE 4-1BB GENE
FILE REFERENCE: 740.009US1
CURRENT APPLICATION NUMBER: US/10/067,122
CURRENT FILING DATE: 2002-02-04
PRIOR APPLICATION NUMBER: 08/012,269
PRIOR FILING DATE: 1993-02-01
PRIOR APPLICATION NUMBER: US 07/922,996
PRIOR FILING DATE: 1992-07-30
PRIOR APPLICATION NUMBER: US 07/267,572
PRIOR FILING DATE: 1988-11-07
NUMBER OF SEQ ID NOS: 13
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2
LENGTH: 256
TYPE: PRT
ORGANISM: Mus musculus
US-10-067-122-2

Query Match          100.0%; Score 62; DB 14; Length 256;
Best Local Similarity 100.0%; Pred. No. 0.0075;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 CRPGQELTKQG 11
DB      105 CRPGQELTKQG 115

RESULT 5
US-10-067-122-7
Sequence 7, Application US/10067122
Publication No. US20030100745A1
GENERAL INFORMATION:
APPLICANT: Kwon, Byoung S.
TITLE OF INVENTION: MURINE 4-1BB GENE
FILE REFERENCE: 740.009US1
CURRENT APPLICATION NUMBER: US/10/067,122
CURRENT FILING DATE: 2002-02-04
PRIOR APPLICATION NUMBER: 08/012,269
PRIOR FILING DATE: 1993-02-01
PRIOR APPLICATION NUMBER: US 07/922,996
PRIOR FILING DATE: 1992-07-30
PRIOR APPLICATION NUMBER: US 07/267,572
PRIOR FILING DATE: 1988-11-07
NUMBER OF SEQ ID NOS: 13
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 7
LENGTH: 12
TYPE: PRT
ORGANISM: Artificial Sequence
OTHER INFORMATION: An artificial peptide
US-10-067-122-7

Query Match          91.9%; Score 57; DB 14; Length 12;
Best Local Similarity 90.9%; Pred. No. 0.0024;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 CRPGQELTKQG 11
DB      1 CRPGQELTKQG 11

RESULT 6
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US-10-375-680-55
; Sequence 55, Application US/10375680
; Publication No. US20040009147A1
; GENERAL INFORMATION:
; APPLICANT: Ebner, Reinhard
; APPLICANT: Yu, Guo-Liang
; APPLICANT: Ruben, Steven M
; APPLICANT: Ullrich, Stephen
; APPLICANT: Zhai, Yifan
; TITLE OF INVENTION: Apoptosis Inducing Molecule II and Methods of Use
; FILE REFERENCE: 1488.06500E
; CURRENT APPLICATION NUMBER: US/10/375,680
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,234
; PRIOR FILING DATE: 2003-03-01
; NUMBER OF SEQ ID NOS: 70
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 55
; LENGTH: 132
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-375-680-55

Query Match 75.8%; Score 47; DB 15; Length 132;
Best Local Similarity 72.7%; Pred. No. 1.8;
Matches 8; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 CRPGOELTKG 11
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Db 79 CKGOELTKG 89

RESULT 7
US-09-739-394-2
; Sequence 2, Application US/09739394
; Patent No. US20010014465A1
; GENERAL INFORMATION:
; APPLICANT: Ni, Jian
; APPLICANT: Yu, Guo-Liang
; APPLICANT: Gentz, Reiner
; TITLE OF INVENTION: Human 4-1BB Receptor Splicing Variant
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Human Genome Sciences, Inc.
; STREET: 9410 Key West Avenue
; CITY: Rockville
; STATE: MD
; COUNTRY: USA
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/739,394
; FILING DATE: 19-Dec-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/253,549
; FILING DATE: <Unknown>
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Human Genome Sciences, Inc.
; STREET: 9410 Key West Avenue
; CITY: Rockville
; STATE: MD
; COUNTRY: USA
; ZIP: 20850
; REFERENCE/DOCKET NUMBER: PF254
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 301-309-8504
; TELEFAX: 301-309-8512
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 219 amino acids
; TYPE: amino acid
; TOPOLOGY: linear

MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-739-394-2

Query Match 75.8%; Score 47; DB 9; Length 219;
Best Local Similarity 72.7%; Pred. No. 3.1;
Matches 8; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 CRPGOELTKG 11
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Db 70 CKGOELTKG 80

RESULT 8
US-10-097-330-2
; Sequence 2, Application US/10097330
; Publication No. US20020127651A1
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: HUMAN 4-1BB RECEPTOR SPLICING VARIANT
; FILE REFERENCE: PF254D1C2
; CURRENT APPLICATION NUMBER: US/10/097,330
; CURRENT FILING DATE: 2002-03-15
; PRIOR APPLICATION NUMBER: US 09/739,394
; PRIOR FILING DATE: 2000-12-19
; PRIOR APPLICATION NUMBER: US 09/253,549
; PRIOR FILING DATE: 1999-02-22
; PRIOR APPLICATION NUMBER: US 08/816,605
; PRIOR FILING DATE: 1997-03-13
; PRIOR APPLICATION NUMBER: US 60/013,474
; PRIOR FILING DATE: 1996-03-15
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 219
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-097-330-2

Query Match 75.8%; Score 47; DB 13; Length 219;
Best Local Similarity 72.7%; Pred. No. 3.1;
Matches 8; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 CRPGOELTKG 11
|:|||||:
Db 70 CKGOELTKG 80

RESULT 9
US-09-739-394-9
; Sequence 9, Application US/09739394
; Patent No. US20010014465A1
; GENERAL INFORMATION:
; APPLICANT: Ni, Jian
; APPLICANT: Yu, Guo-Liang
; APPLICANT: Gentz, Reiner
; TITLE OF INVENTION: Human 4-1BB Receptor Splicing Variant
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Human Genome Sciences, Inc.
; STREET: 9410 Key West Avenue
; CITY: Rockville
; STATE: MD
; COUNTRY: USA
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/739,394
; FILING DATE: 19-Dec-2000

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/ CLASSIFICATION: <Unknown>
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 09/253,549
/ FILING DATE: <Unknown>
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Brookes, A. Anders
/ REGISTRATION NUMBER: 36,373
/ REFERENCE/DOCKET NUMBER: PF254
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 301-309-8504
/ TELEFAX: 301-309-8512
/ INFORMATION FOR SEQ ID NO: 9:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 255 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ SEQUENCE DESCRIPTION: SEQ ID NO: 9:
US-09-739-394-9
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Query Match          75.8%; Score 47; DB 9; Length 255;
Best Local Similarity 72.7%; Pred. No. 3.6;
Matches 8; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
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QY 1 CRPGQELTKKG 11
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Db 106 CKQGQELTKKG 116
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RESULT 10
US-09-826-212-11
/ Sequence 11, Application US/09826212
/ Patent No. US20010021516A1
/ GENERAL INFORMATION:
/ APPLICANT: Wei, Ying-Pei
/ APPLICANT: Gentz, Retner
/ APPLICANT: Ruben, Steven
/ APPLICANT: NI, Jian
/ TITLE OF INVENTION: Tumor Necrosis Factor Receptor 5
/ FILE REFERENCE: 1488.1280006
/ CURRENT APPLICATION NUMBER: US/09/826,212
/ CURRENT FILING DATE: 2001-04-05
/ NUMBER OF SEQ ID NOS: 26
/ SOFTWARE: PatentIn version 3.0
/ SEQ ID NO 11
/ LENGTH: 255
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-09-826-212-11
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Query Match          75.8%; Score 47; DB 9; Length 255;
Best Local Similarity 72.7%; Pred. No. 3.6;
Matches 8; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
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QY 1 CRPGQELTKOG 11
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Db 106 CKQGQELTKKG 116
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RESULT 11
US-09-935-727-13
/ Sequence 13, Application US/09935727
/ Patent No. US20020150583A1
/ GENERAL INFORMATION:
/ APPLICANT: Human Genome Sciences, Inc.
/ TITLE OF INVENTION: Tumor Necrosis Factor Receptors 6 Alpha and 6 Beta
/ FILE REFERENCE: PF454P2
/ CURRENT APPLICATION NUMBER: US/09/935,727
/ CURRENT FILING DATE: 2001-08-24
/ PRIOR APPLICATION NUMBER: 60/303,224
/ PRIOR FILING DATE: 2001-07-06
/ PRIOR APPLICATION NUMBER: 60/252,131
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/ PRIOR FILING DATE: 2000-11-21
/ PRIOR APPLICATION NUMBER: 60/227,598
/ PRIOR FILING DATE: 2000-08-25
/ PRIOR APPLICATION NUMBER: 09/518,931
/ PRIOR FILING DATE: 2000-03-03
/ PRIOR APPLICATION NUMBER: 60/168,235
/ PRIOR FILING DATE: 1999-12-01
/ PRIOR APPLICATION NUMBER: 60/146,371
/ PRIOR FILING DATE: 1999-08-02
/ PRIOR APPLICATION NUMBER: 60/131,964
/ PRIOR FILING DATE: 1999-04-30
/ PRIOR APPLICATION NUMBER: 60/131,270
/ PRIOR FILING DATE: 1999-04-27
/ PRIOR APPLICATION NUMBER: 60/124,092
/ PRIOR FILING DATE: 1999-03-12
/ PRIOR APPLICATION NUMBER: 60/121,774
/ PRIOR FILING DATE: 1999-03-04
/ PRIOR APPLICATION NUMBER: 09/006,352
/ PRIOR FILING DATE: 1998-01-13
/ PRIOR APPLICATION NUMBER: 60/035,496
/ PRIOR FILING DATE: 1997-01-14
/ NUMBER OF SEQ ID NOS: 42
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 13
/ LENGTH: 255
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-09-935-727-13
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Query Match          75.8%; Score 47; DB 9; Length 255;
Best Local Similarity 72.7%; Pred. No. 3.6;
Matches 8; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
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QY 1 CRPGQELTKOG 11
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Db 106 CKQGQELTKKG 116
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RESULT 12
US-09-877-336-2
/ Sequence 2, Application US/09877336
/ Publication No. US20030000851A1
/ GENERAL INFORMATION:
/ APPLICANT: Kwon, Byoung
/ TITLE OF INVENTION: METHODS OF USING HUMAN RECEPTOR ON
/ FILE REFERENCE: 740.011US3
/ CURRENT APPLICATION NUMBER: US/09/877,336
/ CURRENT FILING DATE: 2001-06-08
/ PRIOR APPLICATION NUMBER: 09/007,097
/ PRIOR FILING DATE: 1998-01-14
/ PRIOR APPLICATION NUMBER: 08/409,851
/ PRIOR FILING DATE: 1995-03-23
/ PRIOR APPLICATION NUMBER: 08/122,796
/ PRIOR FILING DATE: 1993-09-16
/ NUMBER OF SEQ ID NOS: 10
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 2
/ LENGTH: 255
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-09-877-336-2
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Query Match          75.8%; Score 47; DB 10; Length 255;
Best Local Similarity 72.7%; Pred. No. 3.6;
Matches 8; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
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QY 1 CRPGQELTKOG 11
|:|||||:|
Db 106 CKQGQELTKKG 116
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RESULT 13

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US-09-877-338-2
; Sequence 2, Application US/09877338
; Publication No. US20040091476A1
; GENERAL INFORMATION:
; APPLICANT: Kwon, Byoung
; TITLE OF INVENTION: METHODS OF USING HUMAN RECEPTOR ON
; FILE REFERENCE: 740.011US3
; CURRENT APPLICATION NUMBER: US/09/877,338
; PRIOR FILING DATE: 2001-06-08
; PRIOR APPLICATION NUMBER: 09/007,097
; PRIOR FILING DATE: 1998-01-14
; PRIOR APPLICATION NUMBER: 08/409,851
; PRIOR FILING DATE: 1995-03-23
; PRIOR APPLICATION NUMBER: 08/122,796
; PRIOR FILING DATE: 1993-09-16
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 255
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-877-338-2

Query Match          75.8%; Score 47; DB 11; Length 255;
Best Local Similarity 72.7%; Pred. No. 3.6;
Matches 8; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 CRPGOELTKG 11
       ||:|||||:|
Db      106 CKGOELTKG 116

RESULT 14
US-10-097-330-9
; Sequence 9, Application US/10097330
; Publication No. US20020127651A1
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: HUMAN 4-1BB RECEPTOR SPLICING VARIANT
; FILE REFERENCE: PF254DIC2
; CURRENT APPLICATION NUMBER: US/10/097,330
; CURRENT FILING DATE: 2002-03-15
; PRIOR APPLICATION NUMBER: US 09/739,394
; PRIOR FILING DATE: 2000-12-19
; PRIOR APPLICATION NUMBER: US 09/253,549
; PRIOR FILING DATE: 1999-02-22
; PRIOR APPLICATION NUMBER: US 08/816,605
; PRIOR FILING DATE: 1997-03-13
; PRIOR APPLICATION NUMBER: US 60/013,474
; PRIOR FILING DATE: 1996-03-15
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 255
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-097-330-9

Query Match          75.8%; Score 47; DB 13; Length 255;
Best Local Similarity 72.7%; Pred. No. 3.6;
Matches 8; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 CRPGOELTKG 11
       ||:|||||:|
Db      106 CKGOELTKG 116

RESULT 15
US-10-027-199-2
; Sequence 2, Application US/10027199
; Publication No. US20020168719A1
; GENERAL INFORMATION:
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; APPLICANT: Kwon, Byoung
; TITLE OF INVENTION: NEW RECEPTOR AND RELATED PRODUCTS AND
; TITLE OF INVENTION: METHODS
; FILE REFERENCE: 740.013US2
; CURRENT APPLICATION NUMBER: US/10/027,199
; PRIOR FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/955,572
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-10-22
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/461,652
; PRIOR FILING DATE: EARLIER FILING DATE: 1995-06-05
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/122,796
; PRIOR FILING DATE: EARLIER FILING DATE: 1993-09-03
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 255
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-027-199-2

Query Match          75.8%; Score 47; DB 13; Length 255;
Best Local Similarity 72.7%; Pred. No. 3.6;
Matches 8; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      1 CRPGOELTKG 11
       ||:|||||:|
Db      106 CKGOELTKG 116

Search completed: February 24, 2005, 19:52:38
Job time : 56.0833 secs
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PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/122,796
FILING DATE: 16-SEP-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/012,269
FILING DATE: 01-FEB-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/922,996
FILING DATE: 30-JUL-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/267,577
FILING DATE: 07-NOV-1988
ATTORNEY/AGENT INFORMATION:
NAME: Michaels, Christopher A
REGISTRATION NUMBER: 34,390
REFERENCE/DOCKET NUMBER: KM05
TELECOMMUNICATION INFORMATION:
TELEPHONE: 607-273-1711
TELEFAX: 607-273-2609
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 256 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
PCT-US96-03965-2

Query Match 100.0%; Score 139; DB 5; Length 256;
Best Local Similarity 100.0%; Pred. No. 1,1e-13;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CRPWTNCSLDGRSVLTKGTTERDVV 25
DB 133 CRPWTNCSLDGRSVLTKGTTERDVV 157

RESULT 13
US-09-523-323-55
Sequence 55, Application US/09523323
Patent No. 6635743
GENERAL INFORMATION:
APPLICANT: Ebner, Reinhard
APPLICANT: Yu, Guo-Liang
APPLICANT: Ruben, Steven M.
APPLICANT: Ullrich, Stephen
APPLICANT: Zhai, Yifan
TITLE OF INVENTION: Apoptosis Inducing Molecule II and Methods of Use
FILE REFERENCE: 1488.065000C
CURRENT APPLICATION NUMBER: US/09/523,323
EARLIER FILING DATE: 2000-03-10
EARLIER APPLICATION NUMBER: 60/168,380
EARLIER FILING DATE: 1999-12-02
EARLIER APPLICATION NUMBER: 60/148,326
EARLIER FILING DATE: 1999-08-11
EARLIER APPLICATION NUMBER: 60/142,657
EARLIER FILING DATE: 1999-07-06
EARLIER APPLICATION NUMBER: 60/137,457
EARLIER FILING DATE: 1999-06-04
EARLIER APPLICATION NUMBER: 60/124,041
EARLIER FILING DATE: 1999-03-11
EARLIER APPLICATION NUMBER: 09/252,656
EARLIER FILING DATE: 1999-02-19
EARLIER APPLICATION NUMBER: 60/075,409
EARLIER FILING DATE: 1998-02-20
EARLIER APPLICATION NUMBER: 09/027,287
EARLIER FILING DATE: 1998-02-20
EARLIER APPLICATION NUMBER: 09/003,886
EARLIER FILING DATE: 1998-01-07
EARLIER APPLICATION NUMBER: 08/822,953
EARLIER FILING DATE: 1997-03-21
EARLIER APPLICATION NUMBER: 60/013,923
EARLIER FILING DATE: 1996-03-22
EARLIER APPLICATION NUMBER: 60/030,157

EARLIER FILING DATE: 1996-10-31
NUMBER OF SEQ ID NOS: 70
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 55
LENGTH: 132
TYPE: PRT
ORGANISM: Homo sapiens
US-09-523-323-55

Query Match 82.7%; Score 115; DB 4; Length 132;
Best Local Similarity 80.0%; Pred. No. 2.8e-10;
Matches 20; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 1 CRPWTNCSLDGRSVLTKGTTERDVV 25
DB 106 CRPWTNCSLDGRSVLVNKTGERDVV 130

RESULT 14
US-08-816-605-2
Sequence 2, Application US/08816605
Patent No. 5874240
GENERAL INFORMATION:
APPLICANT: Ni, Jian
APPLICANT: Yu, Guo-Liang
APPLICANT: Gentz, Reinert
TITLE OF INVENTION: Human 4-IBB Receptor Splicing Variant
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Human Genome Sciences, Inc.
STREET: 9410 Key West Avenue
CITY: Rockville
STATE: MD
COUNTRY: USA
ZIP: 20850
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/816,605
FILING DATE: 13-MAR-1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Brookes, A. Anders
REGISTRATION NUMBER: 36,373
REFERENCE/DOCKET NUMBER: PF254
TELECOMMUNICATION INFORMATION:
TELEPHONE: 301-309-8504
TELEFAX: 301-309-8512
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 219 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-816-605-2

Query Match 82.7%; Score 115; DB 2; Length 219;
Best Local Similarity 80.0%; Pred. No. 5.1e-10;
Matches 20; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 1 CRPWTNCSLDGRSVLTKGTTERDVV 25
DB 97 CRPWTNCSLDGRSVLVNKTGERDVV 121

RESULT 15
US-08-236-918A-8
Sequence 8, Application US/08236918A
Patent No. 5674704
GENERAL INFORMATION:

APPLICANT: Alderson, Mark R.
 APPLICANT: Goodwin, Raymond G.
 APPLICANT: Smith, Craig A.
 TITLE OF INVENTION: Cytokine Designated 4-1BB Ligand
 NUMBER OF SEQUENCES: 18
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Kathryn A. Anderson, Immunex Corporation
 STREET: 51 University Street
 CITY: Seattle
 STATE: Washington
 COUNTRY: US
 ZIP: 98101
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: Apple Power Macintosh
 OPERATING SYSTEM: Apple 7.5.3
 SOFTWARE: Microsoft Word, Version #6.0.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/236,918A
 FILING DATE: 06-May-1994
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/060,843
 FILING DATE: 07-May-1993
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Anderson, Kathryn A.
 REGISTRATION NUMBER: 32,172
 REFERENCE/DOCKET NUMBER: 2801-B
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (206) 587-0430
 TELEFAX: (206) 233-0644
 INFORMATION FOR SEQ ID NO: 8:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 255 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-236-918A-8

Query Match 82.7%; Score 115; DB 1; Length 255;
 Best Local Similarity 80.0%; Pred. No. 6.1e-10;
 Matches 20; Conservative 2; Mismatches 3; Indels 0; Gaps 0;
 QY 1 CRPWTNCSLDGRSVLKTGTTERDQV 25
 Db 133 CRPWTNCSLDGRSVLVNGTKERDQV 157

Search completed: February 24, 2005, 19:37:23
 Job time : 43.3611 secs

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CURRENT APPLICATION NUMBER: US/09/935,727
CURRENT FILING DATE: 2001-08-24
PRIOR APPLICATION NUMBER: 60/303,224
PRIOR FILING DATE: 2001-07-06
PRIOR APPLICATION NUMBER: 60/252,131
PRIOR FILING DATE: 2000-11-21
PRIOR APPLICATION NUMBER: 60/227,598
PRIOR FILING DATE: 2000-08-25
PRIOR APPLICATION NUMBER: 09/518,931
PRIOR FILING DATE: 2000-03-03
PRIOR APPLICATION NUMBER: 60/168,235
PRIOR FILING DATE: 1999-12-01
PRIOR APPLICATION NUMBER: 60/146,371
PRIOR FILING DATE: 1999-08-02
PRIOR APPLICATION NUMBER: 60/131,964
PRIOR FILING DATE: 1999-04-30
PRIOR APPLICATION NUMBER: 60/131,270
PRIOR FILING DATE: 1999-04-27
PRIOR APPLICATION NUMBER: 60/124,092
PRIOR FILING DATE: 1999-03-12
PRIOR APPLICATION NUMBER: 60/121,774
PRIOR FILING DATE: 1999-03-04
PRIOR APPLICATION NUMBER: 09/006,352
PRIOR FILING DATE: 1998-01-13
PRIOR APPLICATION NUMBER: 60/035,496
PRIOR FILING DATE: 1997-01-14
NUMBER OF SEQ ID NOS: 42
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 13
LENGTH: 255
TYPE: PRT
ORGANISM: Homo sapiens
US-09-935-727-13

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Query Match 82.7%; Score 115; DB 9; Length 255;
 Best Local Similarity 80.0%; Pred. No. 2.9e-09;
 Matches 20; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

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QY 1 CRPWTNCSLDGRSVLKTGTTEKDVV 25
DB 133 CRPWTNCSLDGRSVLKTGTTEKDVV 157

RESULT 10
US-09-877-336-2
Sequence 2, Application US/09877336
Publication No. US20030000851A1
GENERAL INFORMATION:
APPLICANT: Kwon, Byoung
TITLE OF INVENTION: METHODS OF USING HUMAN RECEPTOR ON
FILE REFERENCE: 740.011US3
CURRENT APPLICATION NUMBER: US/09/877,336
CURRENT FILING DATE: 2001-06-08
PRIOR APPLICATION NUMBER: 09/007,097
PRIOR FILING DATE: 1998-01-14
PRIOR APPLICATION NUMBER: 08/409,851
PRIOR FILING DATE: 1995-03-23
PRIOR APPLICATION NUMBER: 08/122,796
PRIOR FILING DATE: 1993-09-16
NUMBER OF SEQ ID NOS: 10
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2
LENGTH: 255
TYPE: PRT
ORGANISM: Homo sapiens
US-09-877-336-2

```

Query Match 82.7%; Score 115; DB 10; Length 255;
 Best Local Similarity 80.0%; Pred. No. 2.9e-09;
 Matches 20; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 1 CRPWTNCSLDGRSVLKTGTTEKDVV 25

```

DB 133 CRPWTNCSLDGRSVLKTGTTEKDVV 157

RESULT 11
US-09-877-338-2
Sequence 2, Application US/09877338
Publication No. US20040091476A1
GENERAL INFORMATION:
APPLICANT: Kwon, Byoung
TITLE OF INVENTION: METHODS OF USING HUMAN RECEPTOR ON
FILE REFERENCE: 740.011US3
CURRENT APPLICATION NUMBER: US/09/877,338
CURRENT FILING DATE: 2001-06-08
PRIOR APPLICATION NUMBER: 09/007,097
PRIOR FILING DATE: 1998-01-14
PRIOR APPLICATION NUMBER: 08/409,851
PRIOR FILING DATE: 1995-03-23
PRIOR APPLICATION NUMBER: 08/122,796
PRIOR FILING DATE: 1993-09-16
NUMBER OF SEQ ID NOS: 10
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2
LENGTH: 255
TYPE: PRT
ORGANISM: Homo sapiens
US-09-877-338-2

```

Query Match 82.7%; Score 115; DB 11; Length 255;
 Best Local Similarity 80.0%; Pred. No. 2.9e-09;
 Matches 20; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

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QY 1 CRPWTNCSLDGRSVLKTGTTEKDVV 25
DB 133 CRPWTNCSLDGRSVLKTGTTEKDVV 157

RESULT 12
US-10-097-330-9
Sequence 9, Application US/10097330
Publication No. US20020127651A1
GENERAL INFORMATION:
APPLICANT: Ni et al.
TITLE OF INVENTION: HUMAN 4-1BB RECEPTOR SPLICING VARIANT
FILE REFERENCE: PF254D1C2
CURRENT APPLICATION NUMBER: US/10/097,330
CURRENT FILING DATE: 2002-03-15
PRIOR APPLICATION NUMBER: US 09/739,394
PRIOR FILING DATE: 2000-12-19
PRIOR APPLICATION NUMBER: US 09/253,549
PRIOR FILING DATE: 1999-02-22
PRIOR APPLICATION NUMBER: US 08/816,605
PRIOR FILING DATE: 1997-03-13
PRIOR APPLICATION NUMBER: US 60/013,474
PRIOR FILING DATE: 1996-03-15
NUMBER OF SEQ ID NOS: 9
SOFTWARE: PatentIn version 3.1
SEQ ID NO 9
LENGTH: 255
TYPE: PRT
ORGANISM: Homo sapiens
US-10-097-330-9

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Query Match 82.7%; Score 115; DB 13; Length 255;
 Best Local Similarity 80.0%; Pred. No. 2.9e-09;
 Matches 20; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 1 CRPWTNCSLDGRSVLKTGTTEKDVV 25
 DB 133 CRPWTNCSLDGRSVLKTGTTEKDVV 157

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; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 219 amino acids
;   TYPE: amino acid
;   TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-739-394-2

Query Match      82.7%; Score 115; DB 9; Length 219;
Best Local Similarity 80.0%; Pred. No. 2.4e-09;
Matches 20; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY      1 CRPWTNCSLDGRSVLKTGTTEKDVV 25
Db      97 CRPWTNCSLDGKSVLVNGTKERDVV 121

RESULT 6
US-10-097-330-2
; Sequence 2, Application US/10097330
; Publication No. US20020127651A1
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: HUMAN 4-1BB RECEPTOR SPLICING VARIANT
; FILE REFERENCE: PF254D1C2
; CURRENT APPLICATION NUMBER: US/10/097,330
; CURRENT FILING DATE: 2002-03-15
; PRIOR APPLICATION NUMBER: US 09/739,394
; PRIOR FILING DATE: 2000-12-19
; PRIOR APPLICATION NUMBER: US 09/253,549
; PRIOR FILING DATE: 1999-02-22
; PRIOR APPLICATION NUMBER: US 08/816,605
; PRIOR FILING DATE: 1997-03-13
; PRIOR APPLICATION NUMBER: US 60/013,474
; PRIOR FILING DATE: 1996-03-15
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 219
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-097-330-2

Query Match      82.7%; Score 115; DB 13; Length 219;
Best Local Similarity 80.0%; Pred. No. 2.4e-09;
Matches 20; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY      1 CRPWTNCSLDGRSVLKTGTTEKDVV 25
Db      97 CRPWTNCSLDGKSVLVNGTKERDVV 121

RESULT 7
US-09-739-394-9
; Sequence 9, Application US/09739394
; Patent No. US20010014465A1
; GENERAL INFORMATION:
; APPLICANT: Ni, Jian
;   Genetz, Yu, Guo-liang
;   Genetz, Reiner
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESS: Human Genome Sciences, Inc.
; STREET: 9410 Key West Avenue
; CITY: Rockville
; STATE: MD
; COUNTRY: USA
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
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; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/739,394
; FILING DATE: 19-Dec-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/253,549
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Brookes, A. Anders
; REGISTRATION NUMBER: 36,373
; REFERENCE/DOCKET NUMBER: PF254
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 301-309-8504
; TELEFAX: 301-309-8512
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 255 amino acids
;   TYPE: amino acid
;   STRANDEDNESS: single
;   TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 9:
US-09-739-394-9

Query Match      82.7%; Score 115; DB 9; Length 255;
Best Local Similarity 80.0%; Pred. No. 2.9e-09;
Matches 20; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY      1 CRPWTNCSLDGRSVLKTGTTEKDVV 25
Db      133 CRPWTNCSLDGKSVLVNGTKERDVV 157

RESULT 8
US-09-826-212-11
; Sequence 11, Application US/09826212
; Patent No. US20010021516A1
; GENERAL INFORMATION:
; APPLICANT: Wei, Ying-Fei
; APPLICANT: Genetz, Reiner
; APPLICANT: Ruben, Steven
; APPLICANT: Ni, Jian
; TITLE OF INVENTION: Tumor Necrosis Factor Receptor 5
; FILE REFERENCE: 1488.1280006
; CURRENT APPLICATION NUMBER: US/09/826,212
; CURRENT FILING DATE: 2001-04-05
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 11
; LENGTH: 255
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-826-212-11

Query Match      82.7%; Score 115; DB 9; Length 255;
Best Local Similarity 80.0%; Pred. No. 2.9e-09;
Matches 20; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY      1 CRPWTNCSLDGRSVLKTGTTEKDVV 25
Db      133 CRPWTNCSLDGKSVLVNGTKERDVV 157

RESULT 9
US-09-935-727-13
; Sequence 13, Application US/09935727
; Patent No. US20020150583A1
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Tumor Necrosis Factor Receptors 6 Alpha and 6 Beta
; FILE REFERENCE: PF454P2
```


Query Match 100.0%; Score 139; DB 10; Length 191;
Best Local Similarity 100.0%; Pred. No. 4,4e-13;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CRPWTNCSLDGRSVLKTGTTEKDV 25
DB 133 CRPWTNCSLDGRSVLKTGTTEKDV 157

RESULT 2

US-10-027-199-10
; Sequence 10, Application US/10027199
; Publication No. US20020168719A1
; GENERAL INFORMATION:
; APPLICANT: Kwon, Byoung
; TITLE OF INVENTION: NEW RECEPTOR AND RELATED PRODUCTS AND
; FILE REFERENCE: 740. 013US2
; CURRENT APPLICATION NUMBER: US/10/027,199
; PRIOR FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/955,572
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-10-22
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/461,652
; PRIOR FILING DATE: EARLIER FILING DATE: 1995-06-05
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 08/122,796
; PRIOR FILING DATE: EARLIER FILING DATE: 1993-09-03
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-027-199-10

Query Match 100.0%; Score 139; DB 13; Length 256;
Best Local Similarity 100.0%; Pred. No. 6,1e-13;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CRPWTNCSLDGRSVLKTGTTEKDV 25
DB 133 CRPWTNCSLDGRSVLKTGTTEKDV 157

RESULT 3

US-10-067-122-2
; Sequence 2, Application US/10067122
; Publication No. US20030100745A1
; GENERAL INFORMATION:
; APPLICANT: Kwon, Byoung S.
; TITLE OF INVENTION: MURINE 4-1BB GENE
; FILE REFERENCE: 740.009US1
; CURRENT APPLICATION NUMBER: US/10/067,122
; PRIOR FILING DATE: 2002-02-04
; PRIOR APPLICATION NUMBER: 08/012,269
; PRIOR FILING DATE: 1993-02-01
; PRIOR APPLICATION NUMBER: US 07/922,996
; PRIOR FILING DATE: 1992-07-30
; PRIOR APPLICATION NUMBER: US 07/267,572
; PRIOR FILING DATE: 1988-11-07
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-067-122-2

Query Match 100.0%; Score 139; DB 14; Length 256;
Best Local Similarity 100.0%; Pred. No. 6,1e-13;
Matches 25; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CRPWTNCSLDGRSVLKTGTTEKDV 25

DB 133 CRPWTNCSLDGRSVLKTGTTEKDV 157

RESULT 4

US-10-375-680-55
; Sequence 55, Application US/10375680
; Publication No. US20040009147A1
; GENERAL INFORMATION:
; APPLICANT: Ebner, Reinhard
; APPLICANT: Yu, Guo-Liang
; APPLICANT: Ruben, Steven M
; APPLICANT: Ullrich, Stephen
; APPLICANT: Zhai, Yifan
; TITLE OF INVENTION: Apoptosis Inducing Molecule II and Methods of Use
; FILE REFERENCE: 1488.065000E
; CURRENT APPLICATION NUMBER: US/10/375,680
; PRIOR FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,234
; PRIOR FILING DATE: 2002-03-01
; NUMBER OF SEQ ID NOS: 70
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 55
; LENGTH: 132
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-375-680-55

Query Match 82.7%; Score 115; DB 15; Length 132;
Best Local Similarity 80.0%; Pred. No. 1,4e-09;
Matches 20; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 1 CRPWTNCSLDGRSVLKTGTTEKDV 25
DB 106 CRPWTNCSLDGRSVLKTGTTEKDV 130

RESULT 5

US-09-739-394-2
; Sequence 2, Application US/09739394
; Patent No. US2001001465A1
; GENERAL INFORMATION:
; APPLICANT: Ni, Jian
; APPLICANT: Yu, Guo-Liang
; APPLICANT: Gentz, Reiner
; TITLE OF INVENTION: Human 4-1BB Receptor Splicing Variant
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Human Genome Sciences, Inc.
; STREET: 9410 Key West Avenue
; CITY: Rockville
; STATE: MD
; COUNTRY: USA
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/739,394
; FILING DATE: 19-Dec-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/253,549
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Brookes, A. Anders
; REGISTRATION NUMBER: 36,373
; REFERENCE/DOCKET NUMBER: PF254
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 301-309-8504
; TELEFAX: 301-309-8512

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 24, 2005, 19:35:42 ; Search time 122.917 Seconds
(without alignments)
66.557 Million cell updates/sec

Title: US-10-067-122B-2_COPY_133_157
Sequence: 139
1 CRPWTCSLDGRSVLKTGTTEKDV 25

Scoring table:

BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1380268 segs, 327241040 residues

Total number of hits satisfying chosen parameters: 1380268

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :
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/cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	139	100.0	191	US-09-405-032-136	Sequence 136, App
2	139	100.0	256	US-10-027-199-10	Sequence 10, Appl
3	139	100.0	256	US-10-067-122-2	Sequence 2, Appl
4	115	82.7	132	US-10-375-680-55	Sequence 55, Appl
5	115	82.7	219	US-09-739-394-2	Sequence 2, Appl
6	115	82.7	219	US-10-097-330-2	Sequence 2, Appl
7	115	82.7	255	US-09-739-394-9	Sequence 9, Appl
8	115	82.7	255	US-09-826-212-11	Sequence 11, Appl
9	115	82.7	255	US-09-826-212-11	Sequence 11, Appl
10	115	82.7	255	US-09-826-212-11	Sequence 11, Appl
11	115	82.7	255	US-09-826-212-11	Sequence 11, Appl
12	115	82.7	255	US-09-826-212-11	Sequence 11, Appl
13	115	82.7	255	US-09-826-212-11	Sequence 11, Appl

14	115	82.7	255	US-10-170-997-2	Sequence 2, Appl
15	115	82.7	255	US-10-186-643-11	Sequence 11, Appl
16	115	82.7	255	US-10-207-655-160	Sequence 160, App
17	115	82.7	255	US-10-418-242-13	Sequence 13, Appl
18	115	82.7	255	US-10-446-308-18	Sequence 18, Appl
19	115	82.7	255	US-10-755-889-174	Sequence 174, App
20	86	61.9	625	US-09-871-856-15	Sequence 15, Appl
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23	86	61.9	625	US-09-871-856-15	Sequence 15, Appl
24	86	61.9	625	US-09-871-856-15	Sequence 15, Appl
25	86	61.9	625	US-09-871-856-15	Sequence 15, Appl
26	86	61.9	625	US-10-151-071-2	Sequence 2, Appl
27	86	61.9	625	US-10-151-071-2	Sequence 2, Appl
28	86	61.9	625	US-10-151-071-2	Sequence 2, Appl
29	86	61.9	625	US-10-151-071-2	Sequence 2, Appl
30	86	61.9	625	US-10-151-071-2	Sequence 2, Appl
31	86	61.9	625	US-10-151-071-2	Sequence 2, Appl
32	86	61.9	625	US-10-151-071-2	Sequence 2, Appl
33	86	61.9	625	US-10-151-071-2	Sequence 2, Appl
34	86	61.9	625	US-10-151-071-2	Sequence 2, Appl
35	86	61.9	625	US-10-151-071-2	Sequence 2, Appl
36	86	61.9	625	US-10-151-071-2	Sequence 2, Appl
37	86	61.9	625	US-10-151-071-2	Sequence 2, Appl
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41	86	61.9	625	US-10-151-071-2	Sequence 2, Appl
42	86	61.9	625	US-10-151-071-2	Sequence 2, Appl
43	86	61.9	625	US-10-151-071-2	Sequence 2, Appl
44	86	61.9	625	US-10-151-071-2	Sequence 2, Appl
45	86	61.9	625	US-10-151-071-2	Sequence 2, Appl

ALIGNMENTS

RESULT 1
US-09-405-032-136
Sequence 136, Application US/09405032
Publication No. US20030207827A1
GENERAL INFORMATION:
APPLICANT: Amgen Inc.
TITLE OF INVENTION: OSTEOPROTEGERIN
NUMBER OF SEQUENCES: 168
CORRESPONDENCE ADDRESSES:
ADDRESSES: Amgen Inc.
STREET: 1840 Dehavilland Drive
CITY: Thousand Oaks
STATE: California
COUNTRY: United States
ZIP: 91320
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/405,032
FILING DATE: 24-Sep-1999
CLASSIFICATION: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Winter, Robert B.
REFERENCE/DOCKET NUMBER: A-378-CIP2
INFORMATION FOR SEQ ID NO: 136:
SEQUENCE CHARACTERISTICS:
LENGTH: 191 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 136:
US-09-405-032-136